In re VANDENBOSSCHE
09/583,583

IN THE CLAIMS

1. (Currently Amended) Brush holder (2) for a vehicle alternator having a housing with a bearing (36), said brush holder (2) comprising:

an insulating support (4) having an opening (22);

a heat dissipating means (14, 26) having a metallic seat fixed to the support (4);

and an electrical circuit comprising a semiconductor control component (12), in which the seat (14) on the one hand receives for fixing on one of its faces the control component (12) by means of an opening (22) in the support (4) and on the other hand belongs to the heat dissipation means (14, 26) in contact with an ambient environment and arranged so as to receive heat from the control component (12), wherein the seat is separate from the ~~housing~~ bearing (36) and not in contact with said ~~housing~~ bearing (36), said seat is mounted within a thickness of the support (4) and the seat receives on the other of its faces a heat dissipator so that the heat dissipation means (14, 26) is composed of two distinct and adjacent parts,

wherein the dissipator (26) has a coefficient of expansion greater than that of the seat.

2-3. (canceled)

4. (Previously Amended) Brush holder according to claim 1, wherein the support (4) is moulded onto the seat (14).

5. (Previously Amended) Brush holder according to claim 1, wherein the support (4) is moulded onto the dissipator (14, 26).

6. (Previously Amended) Brush holder according to claim 1, wherein the dissipator (26) is attached to the support (14).

7. (Previously Amended) Brush holder according to claim 6, wherein the dissipator (26) is fixed to the support (4) by screws (34).

8. (Previously Amended) Brush holder according to claim 1, wherein it comprises a heat-conducting layer (30) interposed between the seat (14) and the dissipator.

9. (Previously Amended) Brush holder according to claim 1, wherein the seat (14) and the dissipator (26) are in direct contact.

10. ({Previously Amended) Brush holder according to claim 9, wherein at least one (14) from amongst the seat (14) and dissipator (26) has projecting reliefs (38) able to enter the material of the other one (26) from amongst a base and dissipator when they are placed in the operating position of the brush holder.

11. (Previously Amended) Brush holder according to claim 1, wherein the dissipator (26) is metallic.

12. (canceled)

13. (Previously Amended) Vehicle alternator, comprising: a brush holder according to claim 7, at least one of the screws (34) for mounting the dissipator (26) on the support (4) providing the fixing of the brush holder (2) to a housing of the machine, and a thermally insulating element (37) is interposed between the or each screw (34) and the dissipator (36).

14. (canceled)